

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A multilayer optical filter comprising:

a substrate;

a multilayer film including a plurality of thin-films, [[alternately]] stacked on at least one face of the substrate, each containing corresponding dielectric materials having different refractive indexes; and

one or more adjusting layers for adjusting the temperature shift of the wavelength of transmitted light, wherein

the thin-films having higher refractive index and the thin-films having lower refractive index are alternately stacked, and

a value of  $TSCW = \lambda c [\beta_f + \sigma / \{1 + \{(1 - P_o) / (N_o P_o)\}} - \{2(\beta_s - \beta_f) / (1 - s)\} \{s + (1 - 2s)(1 - 1 / N_o) / \{1 + (1 - P_o) / (N_o P_o)\}\}]$  is substantially zero,

where TSCW represents the temperature shift,

$\lambda c$  represents a wavelength of light used,

$\beta_f$  represents a coefficient of linear expansion of the multilayer optical filter,

$\sigma$  represents a temperature coefficient of the refractive indices,

$s$  represents an average Poisson ratio,

$P_o$  represents a filling factor,

$N_o$  represents a transmissivity of the multilayer film at 25°C,

$\beta_s$  represents a coefficient of linear expansion of the substrate, and

$\beta_f$  represents a coefficient of linear expansion of the multilayer film.

2. (original) The multilayer optical filter according to Claim 1, wherein the adjusting layer is directly placed on the substrate and the multilayer film is placed on the adjusting layer.

3. (original) The multilayer optical filter according to Claim 1, wherein the one or more adjusting layers contain the same material as that contained in at least one of high refractive thin-films and low refractive thin-films included in the multilayer film.

4. (original) The multilayer optical filter according to Claim 1, wherein a plurality of the adjusting layers are placed in the multilayer film.

5. (original) The multilayer optical filter according to Claim 1, wherein the one or more adjusting layers contain a material different from that contained in the multilayer film.

6. (original) The multilayer optical filter according to Claim 1, wherein the one or more adjusting layers have a thickness of 5 to 50  $\mu\text{m}$ .

7. (original) The multilayer optical filter according to Claim 1, wherein a plurality of the thin-films included in the multilayer film contain two or more materials selected from the group consisting of  $\text{TiO}_2$ ,  $\text{SiO}_2$ ,  $\text{Ta}_2\text{O}_5$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{ZrO}_2$ , Si, ZnS, HfO, Ge,  $\text{Nd}_2\text{O}_3$ ,  $\text{Nb}_2\text{O}_5$ , and  $\text{CeO}_2$ .

8. (original) An optical component comprising the multilayer optical filter according to Claim 1.